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TITLE: METHOD FOR CONTROLLING
MERCURY CONCENTRATION IN
EXHAUST GAS
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ABSTRACT:

PURPOSE: To prevent the supply of an excess of hypochlorite by operating the flow rate of the hypochlorite so that the deviation between the mercury concn. in the gas exhausted after an estimated

dead time and the desired value is decreased to zero.

CONSTITUTION: The exhaust gas 5 from an incinerator is introduced into a washing tower 8, and brought into contact with a cleaning soln. 7. The hypochlorite 8 as an oxidizing agent is added from the midst of a cleaning soln. line to remove reductive matter and metallic mercury by oxidation. The mercury concn. in the treated gas is measured by a mercury densitometer 9, and inputted to a mercury-removal controller 10, a flow-rate signal is sent to a feed pump 11 for the hypochlorite, and the supply of the hypochlorite 8 is controlled. In this case, the dead time until the variation in the flow rate of the hypochlorite added affects the variation in the mercury concn. in the exhaust gas is calculated by the controller 10, and the deviation between the mercury concn. in the exhaust gas and the desired value is decreased to zero.

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